

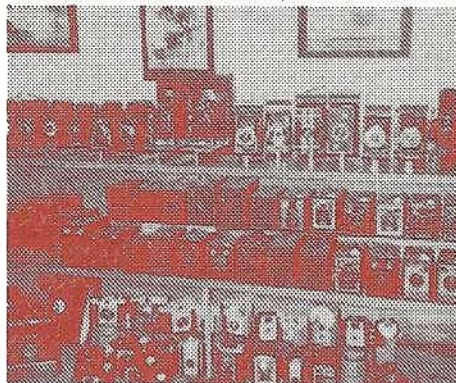
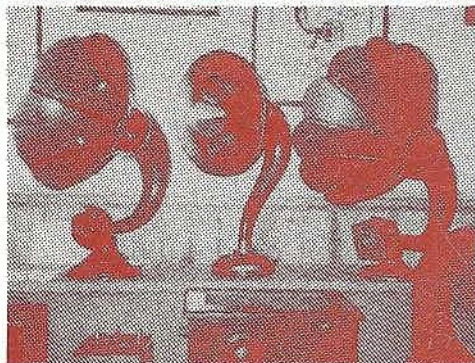
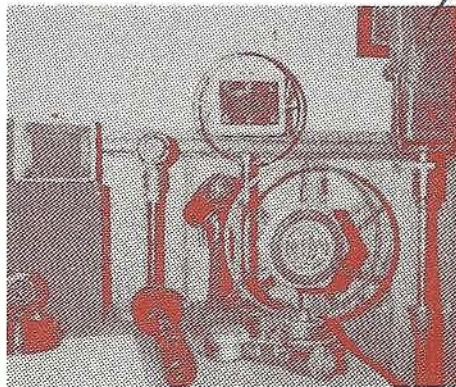
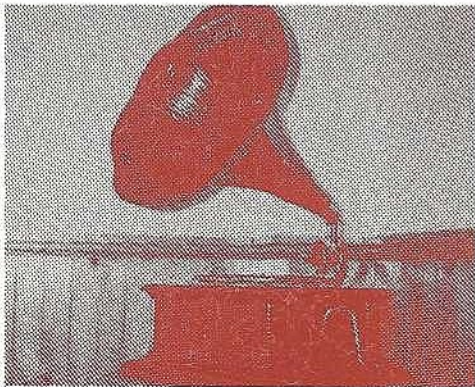
01/05 01

MAY 1991



B.A.R.G. NEWS

30/5/91



© Monthly Newsletter of the
Ballarat Amateur Radio Group

9/05 02

BALLARAT AMATEUR RADIO GROUP INCORPORATED

OFFICERS 1990-1991

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President:	IAN McDONALD	VK3AXH		311317
Imm. Past President:	GORDON CORNELL	VK3KGC	392427	391135
Vice President:	TOM GEORGE	VK3TOM	355662	327234
Secretary:	JIM WRIGHT	VK3CFB	327563	
Treasurer:	HARRY HEKKEMA	VK3KGL	357563	391001
Asst. Secretary:	GEORGE FOWLER	VK3DOK	326863	391954
Publicity Officer:	JOHN HAZELDINE	VK3CFH	391971	391035
Education Officer:	IAN McDONALD	VK3AXH		311317
Net Co-ordinator:	CHARLIE STEWART	VK3DCS	317425	
Technical Officer	DICK ANTOSIEWICZ	VK3AEX	323273	321818
Memb. Representative:	MARY CURNOW	VK3NMC	301927	
	REG CARTER	VK3CAZ		

OFFICERS AND COMMITTEES

Q.S.L. Manager:	JEFF PIGDON	VK3PAP	327041	311211
Awards Manager:	MAURIE BALL	VK3XEX	422245	
Property Officer:	DICK ANTOSIEWICZ	VK3AEX	323273	381818
Hamfest Convenor:	KEVIN HUGHES	VK3WN	355011	
WICEN Committee:	GORDON CORNELL	VK3KGC	392487	391135
	TOM GEORGE	VK3TOM	355662	327234
	GEOFF SMITH	VK3ADB	332112	321719
Technical Committee:	MERV HOOLEY	VK3KAW		311317
	IAN McDONALD	VK3AXH		311317
	DICK FORRESTER	VK3VU	357663	391001
	DAVID McCONNELL	VK3YNB		
Newsletter Editors:	BOB TERRILL	VK3BNC	395317	391001
	HARRY HEKKEMA	VK3KGL	357563	391001

Repeaters: VK3RBA – 146.750 Voice. Mt. Buninyong (ch. 3)

VK3RBS – 146.900 Voice. Smeaton Hill (ch. 6)

VK3RPC – 147.575 Packet. Mt. Warrenheip

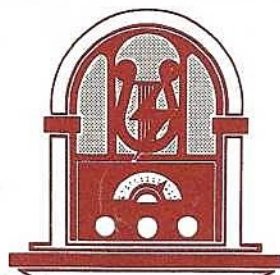
Club Net: ON 3.5610 Mhz. SSB +/- QRM
Every Thursday at 8 p.m.

B.A.R.G. meets on the LAST FRIDAY in every month except December at the Ballarat Education Centre, Hopetoun St., Ballarat at 7.30 p.m.

Committee meetings are held at the Education Centre on the Wednesday two weeks prior to the Club meeting at 7.30 p.m. Executive committee members are expected to attend and any club member with business for discussion is welcome.

All correspondence to: The Secretary, BARG Inc., P.O. Box 216E, Ballarat East, 3350.

Applications for Awards to: Maurie Batt, RSD, Rokewood Junction, 3351.



ORPHEUS RADIO MUSEUM

CNR. RING RD. & WESTERN HWY BALLARAT
(OPEN 10AM - 5 PM 7 DAYS A WEEK)

FEATURES

- GRAMOPHONES • VINTAGE RADIOS • VISITORS PARTICIPATION
- MEMORABILIA • AUDIO DISPLAYS • DEMONSTRATIONS • CRYSTAL SETS

The "Orpheus Radio Museum" is operated by Richard and Sonja Wilson.
The collection includes their private collection, the 3BA collection and other items on loan to the museum.

The museum is run with the idea of preserving the history of radio in Australia and making it accessible to the public.

If anyone has any information or items of interest to the museum, would they please contact, or write to, the "Orpheus Radio Museum" RSD B98, Ballarat 3352. Telephone (053) 34 2513.

Let the public enjoy your piece of Radio History.

91/05 03

MINUTES OF GENERAL MEETING HELD 26th APRIL 1991.

MEETING OPENED at 7.50pm by President Ian AXH who welcomed the 32 members and visitors Peter, Neil and Trevor MBA.

APOLOGIES VK3 KGC, FR, VU, AEX, BNC, CCB, KIT, CUH IBM, DS, Graham Hatherall.

CORRESPONDENCE IN Notification of Western Zone meeting to be held at Lake Bolac Hotel, 25th May at 1.30pm.

CORRESPONDENCE OUT Letter of thanks to Barry Wilton WIA Secretary for assisting with literature for Begonia Festival.

MINUTES of previous meeting as circulated were confirmed. DMK/CAZ.

TREASURERS REPORT General a/c \$132.32. VS&L a/c \$2094.70.
Accounts for \$689.82. passed for payment. KGL/YMW

QSL MANAGER Jeff PAP reported 130 cards in and approx 400 out.

CLUB NET Charley DCS reported better support on the net but still no calls from other than club members.

NEWSLETTER MATERIAL NEEDED. Will accept recepies, Jokes, household hints etc.

TECHNICAL Merv KAW will have the 432mhz Beacon working in the next week or so and a new antenna is needed on the Packet repeater.

EDUCATION Classes are proceeding well.

GENERAL BUSINESS

Gordon KGC reported that the Central Bowling Clubrooms are not available.

Maury XEX can screenprint the Club Logo on Tee Shirts at a small cost, Supply your own shirt and contact Maury.

The Education Centre have removed the Cafe Bar but have left an urn for hot water. The Club will supply cups and tea and coffee at future meetings.

Don't forget the Sunday night Scramble and Monday night Foxhunts.

MEETING CLOSED 8.35pm.

73s Jim CFB.

#####

NEXT BARG MEETING Friday 31st May. ANNUAL SALE OF PRELOVED GEAR AND JUNK.

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91/05 04

PRESIDENTS NOTE

Well another month has gone and almost half the year. I would like to take this opportunity to thank Tom VK3DMK, Reg VK3CAZ and Bob VK3BNC for their efforts with the Novice course. It is important to remember that our hobby is under threat with ever diminishing numbers and it is activities like the availability of a Novice course that will encourage new members to participate in this wonderful hobby. Some members recently sat for the WIA exams and I wish them every success even though there was some trouble with the AOCF morse receiving segment. Again I wish to thank Charlie, Reg, Tom and Gordon for their assistance in running the exams.

This months club meeting will see our annual junk sale. So dig deep and bring along those prized possessions that you are willing to part with. This is a fun night capably run by our resident auctioneer - George VK3DOK - so pass the word around. Lets see if we can bring along some new junk, not only the recycled stuff????!!!!!!!

73's Ian VK3 AXH

SCRAMBLE RESULTS -- 1991

VK3DCS	123 POINTS
VK3DOK	75 POINTS
VK3CIS	48 POINTS
VK3PAP	24 POINTS
VK3CCB	19 POINTS
VK3AXH	87 POINTS

This is the aggregate tally of points so far this year. In order to finalise results prior to the AGM please bring your results to the club meetings.

" DONT FORGET TO BRING IN YOUR LOGS TO BE IN THE RACE !!!!!!!!!!!!! "

FOR SALE ...

1. H.F. station comprising..
TS 520S transceiver with DC option.
VFO 520 VFO
SP 520 speaker.
SM 220 with BS5 Station Monitor & Panadaptor
AT 200 ATU, Power meter, VSWR & ANT switch.
DG 5 Dig display / Freq counter. Dry joints on PCB.
\$1070.00 (Will NOT seperate) All in 1st class condition
2. Converted CB set on 10 Mx .. 24 channel
Sideband Electronics type SE 501 complete
with mic and handbook. Works well.
\$75.00
3. 4 Element wide spaced 15 Mx beam complete with
2kw balun. Works well.
\$100.00
4. 5 Element wide spaced 10 mx beam complete with
2kw balun. Works well.
\$100.00

ALL prices are Negotiable. VK3KAW 053 311317 B.H.

91/05 05

News from the Technical Committee..

1. The 432MHz beacon was put back into service around the middle of the month and seems to be working well.
2. The club antenna has been installed for VK3RPC and now provides better coverage. Discussions about resolving the interference problem should begin shortly and once this problem is rectified the repeater should provide very good service. The repeater now has a version of NORD<>LINK software running which allows use of level 2 as well as level 3 frames.

Merv. VK3KAW

NEWS FLASH..

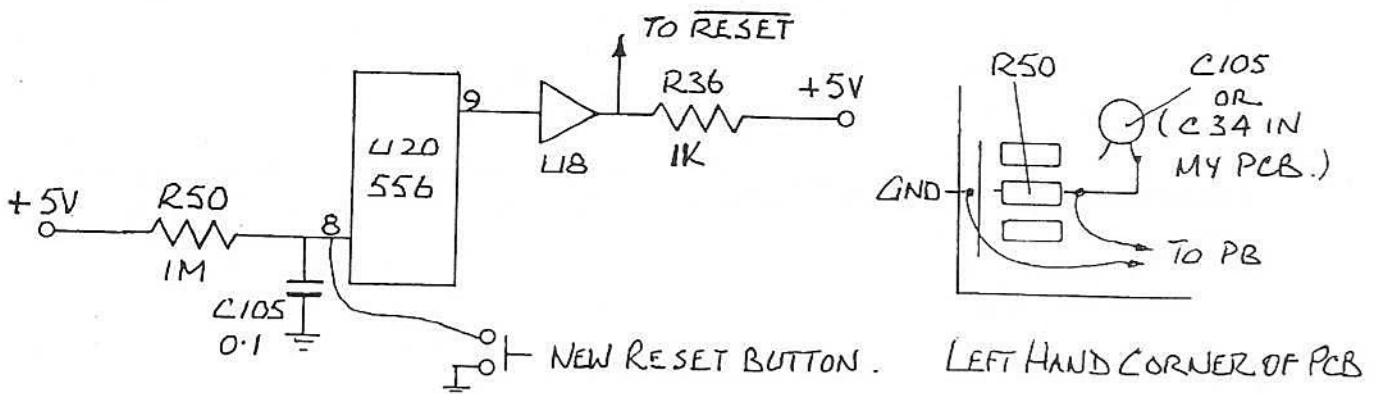
The Horsham Club is purchasing a REPLACEMENT TNC for VK3RPG. The new TNC will be a PACCOMM Tiny 2 with DCD State board and NORD<>LINK networking software. This will allow support for both Level 2 and Level 3 users.

Merv. VK3KAW

A Mystery.

by VK3ABK

Why doesn't Commodore fit a reset button to the C64 computer?. Or to be obtuse, why do they install a reset timer and fail to connect a trigger circuit to make it work?. Look at the map below and at Pin 8 of the 556/3456 U20. It's held Hi via R50 but needs to go Lo to start the timer. Mount a push button on the rear of the C64 case and run two wires to R50-C105 junction and to ground and you too can reset your Commodore (and Digicom) without fuss.



PART NUMBERS ARE FROM THE COMMODORE PROGRAMMERS GUIDE AND REFERE TO MOST C64 VERSIONS. BOARD LAYOUTS AND NUMBERING MAY NOT BE THE SAME.

91/05 06

WICEN REPORT MAY 91

There are a number of Items for reporting this month where help is being sought.

The first is the Mallee Rally which is to be held on the long weekend in June. Two Operators are being sought from "M" region to help. The details are as follows.

Arrive at the site near Sealake mid Saturday and set up camp in the middle of the course.

You should not be out of pocket for the weekend as Food and fuel are to be provided or paid.

The operator provides comms using your 2M equipment on the Sunday & are free to return on Sunday night or stay for the Motor Bike racing on the Monday.

This should be a good weekend and a chance to meet other WICEN operators from other Regions. Would you please consider this and give me your name at the next club meeting.

I have been in contact with the Ballarat Red Cross with the idea of members being able to do a First Aid course. WICEN have negotiated with Red Cross to do one of their courses at a discounted rate of \$58.00 all inclusive of books & equipment.

The Course dates that are available are.

22 Jul 91 Mondays 7 to 9.30 PM for 8 weeks

07 Oct 91 Mondays 7 to 9.30 PM for 8 weeks

Members who are interested, please talk to me at the next meeting or contact me at work on 391135.

At the last Regional Co-Ordinators meeting held at Moe on 18 May, a new list of WICEN emergency frequencies was tabled and noted, but the 80M band is still being clarified. When this is done the list will be published in the WICEN News - So keep your eye out for the changes and note them in your Operators Handbook.

NEW EQUIPMENT: Now in the region I hold the following WICEN equipment for use on activations,

5 x Blue Tabards

2 x Large Black on Yellow plastic Comms. Centr signs

1 x 10M Plastic barrier material to keep the operator free of intruders.

The Annual General Meeting of WICEN Inc will be held on 27 July 1991 at a venue still to be fixed.

It has been indicated to WICEN that with the shortage of money in State Government departments we are more likely to be called out to DISPLAN ACTIVATIONS than has been the case in the past. Also now that Data transmission is becoming more important experiments using Packet Radio are being carried out both in the field and as base stations. To aid in this a new portable digipeater has been built for WICEN and is undergoing tests at the moment.

Because of these developments it is time to update my lists of equipment and availability of operators and make any other changes to personal particulars. To do this would members please fill in the WICEN Information Form, included in this news letter and in the Other Data or Expertise (in pencil) if you need any stationary such as message forms etc.

Early return of these forms would be appreciated so that the State register data bank can be updated in the new WICEN year.

Gordon VK3KGC

Boost to OTHR

A NEW supercomputer will boost development of Jindalee, Australia's over the horizon radar system.

The VAX9420 supercomputer, the most powerful ever built by Digital Equipment Corporation, has been installed at the Defence Science and Technology Organisations' Surveillance Research Laboratory at Salisbury, near Adelaide.

Scientists and technicians will use the huge computer to accelerate development of the Australian-designed Jindalee radar system which is to be installed in Western Australia and near Longreach, while an existing test site near Alice Springs will be brought to full operating power.

The world's second largest computer company, Digital sent the first sample it produced of its new model to SRL.

Digital computers have been used since the beginning of the Jindalee development in 1975.

Able to detect aircraft

up to 3000km away by "seeing" over the horizon, Jindalee has been developed by a team of scientists at Salisbury, many of them working on the project for more than 15 years.

The new computer, able to make more than 250 million calculations in a split second, is used to analyse data to identify objects seen by the radar.

An early warning defence system, Jindalee is supported by microwave technology which pinpoints the object's position once located.

Telecom has been awarded a \$970 million defence contract to build the Jindalee installations which should be fully operational in five years.

The contract calls for the latest solid state technology to be installed at the radar sites, significantly improving their effectiveness over existing test models.

Digital computers were used at the first test site, built at Alice Springs in 1975, and at the SRL, to analyse atmospheric effects on the long-distance radar over the Australian outback.

Years of research have been stored in a massive data base which gives instant information to predict how the radar beam will behave under varying atmospheric conditions, to improve its accuracy.

Jindalee's transmitter bounces a signal to the ground over the horizon and back to a huge 3km-long receiver sited 100km away.

Objects caught in its beam can be identified once unwanted images caused by ground and atmospheric effects are electronically "wiped" away.

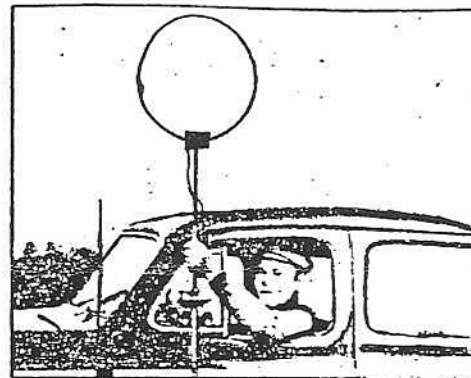
This is the job of the computer system.

SRL scientists will also use their new computer to create mathematical models so that more information can be added to their data base.

This information, and SRL's technical skills, will be available to support RAAF staff and technicians who will operate the expanded Jindalee network.

Other branches of DSTO doing research into weapons, aeronautics, materials and electronics will progressively hook into the SRL supercomputer to create a high security defence research network through South Australia and Victoria.

91/05 07



It's going to be hard to hide that transmitter from VK3BNC/VK3KGC.

FOR SALE

YAESU FT-707 HF Transceiver in GC., complete with CW filter, manual, carton, mobile bracket. \$550.00

YAESY FT-101ZD HF Transceiver in VGC., complete with DC-DC converter, fan, and manual. \$650.00

Contact Damian, VK3EHP, (053) 524183.

FOR SALE

PK-80 TNC with G3RUH PSK Modem \$250

PSK used on PACSAT & LUSAT packet satellites.

FDK 2 mtr FM 10 watts (like IC-22A) with all major repeater channels and two packet channels \$200

Tandy Model 100 laptop computer, 32k ram, built-in terminal program, great for mobile/portable packet \$350

Contact Maggie, VK3CFI at 052-314977 or Lou, VK3DFI at 052-314400 during business hours or Box 285, Colac, 3250.

91/05 08

COMPUTER BITS

MY COMPUTER GOT HOT!. WHEN RUNNING ALL DAY FOR PACKET IT GOT VERY HOT!!!. THE COMPUTER IS A COMMODORE C64: A 1984 VERSION IN THE OLD STYLE WRAPPING I BOUGHT IT FOR PACKET AS IT FITTED THE C64 REFERENCE GUIDE THAT I HAD BOUGHT ON SPEC. (THAT'S BOTH SPECIAL AND SPECULATION) AS HAMS USUALLY DO. ANYWAY, I JACKED IT UP ON BLOCKS (THE COMPUTER THAT IS) TO IMPROVE THE AIR FLOW, BUT STILL IT GOT HOT. IT GOT SO HOT THE TIME OF DAY CLOCK IN DIGICO GAVE UP RUNNING. SO I SET UP A FAN TO COOL THINGS DOWN A BIT. IT DID. THE CLOCK NOW RAN, BUT I WAS USING BANDAIDS INSTEAD OF LOGIC.

THE LID CAME OFF AND THIS HELPED TO COOL THE HOT BITS, BUT THE KEYBOARD WAS HARD TO USE UPSIDE DOWN. I WOULD HAVE TO FIND THE CAUSE OF THE MALAIS AS THAT WAS THE KEY TO MY PROBLEM. (NOTE THE STEEL TRAP MIND HERE.) VOLTAGES SHOULD BE WORTH A LOOK IN ANY FIX SUCH AS THIS AND IT'S EASY TOO

POWER SUPPLY COMES FROM AN OUTBOARD PACK THAT ALSO GOT HOT. TUBES USED TO GET HOT BUT THAT'S THE WAY THEY WORK. THIS SOLID STATE USES QUANTUMS AND THEY ARE COOL.

ANYWAY, VOLTAGES WERE GOOD AND NOT SO GOOD. THE 9V AC WAS 10V AC, (ONE AS SPARE I THOUGHT) BUT THE +5V DC WAS +11V DC.!!! A LITTLE BIT UN REGULAR OR NOT REGULATED. WHAT EVER. THIS WAS ELEVATING THOSE QUANTUMS FOR SURE. COMMODORE POWER PACKS COME IN TWO FORMS. (I HAD FOUND ANOTHER FORM) THEY ARE EITHER A BOX OF BITS, OR A BOX OF BITS IN EPOXY RESIN. I HAD THE TRIC ONE. SO, THE LM340-5 (IT SHOULD BE IN THERE) DIDN'T LIKE THE JOB AND QUIT WELL, POTTED IN RESIN IN A PLASTIC BOX WOULD BE REASON ENOUGH AND BEING AN LM340-T (MY OTHER ONE IS) AND DROPPING 6V AT OVER 1 AMP IS ANOTHER ONE. NOT MUCH CHANCE OF COOLING INSIDE A BIG BLOCK OF HEAT RESISTANCE.

SO, MY OUTBOARD PACK WAS DUE FOR A CHANGE OF STATUS. TOO GOOD TO THROW AWAY, REMEMBER WE ARE HAMS AND DON'T DO THAT. AN OUTBOARD REGULATOR WOULD GET BACK MY +5V DC, UNTIL THE FILTER CAPACITORS DIED OF HEAT FAILURE. BUT A POWER SUPPLY SHOULD BE REALLY RELIABLY REGULATED AND ROBUST IF IT'S TO COMPLETELY CURE COMPUTER CRISIS. AND THAT'S ANOTHER STORY.

73 DE DICK VK3ABK.

DEAD BATTERY PACK ON YOUR IC2A?

Don't pay an outrageous price for a genuine ICOM replacement!

The size replacement nicad battery you need is known as a "2/3 AA" and they are available at Ballarat ELECTRONIC SUPPLIES for about \$3.00 each. A few minutes with a soldering iron and voila!

Dick Forrester VK3VU.

DONT FORGET!!!

JUNK SALE

THIS MONTH

91/05 09

TRANSCEIVERS TO GO!



Ultra Compact - Rugged Construction - Superb Performance!

FT-23R 2M TRANSCEIVER

Superb performance on the 2m band with all the reliability you know you can expect from Yaesu. The FT-23R is tiny in size, only 55mm x 32mm x 139mm, yet this handheld packs more punch than you'd believe possible.

It's fully micro-processor controlled with 10 memories (7 memories store non-standard shifts), standard repeater splits (inc reverse function) pushbutton or manual scanning (busy/memory/priority), 1MHz up/down stepping, up to 5 watts output (with 12V DC) and more.

You get full 144 to 148MHz band coverage in the palm of your hand with rugged die-cast transceiver casing and rubber gaskets seals for reliable long-term operation.

Supplied with high capacity 600mAh FNB-10 NiCad battery giving 2.5W output, AC charger, mini rubber-duckie antenna and carry case.

Cat D-3490

2 YEAR WARRANTY

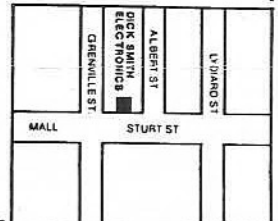
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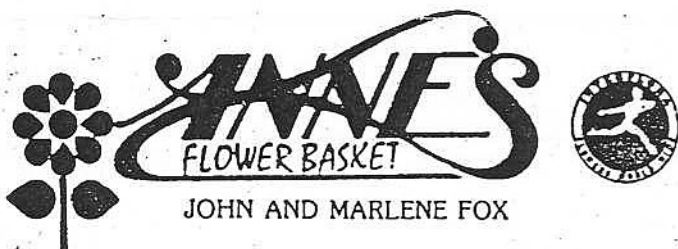
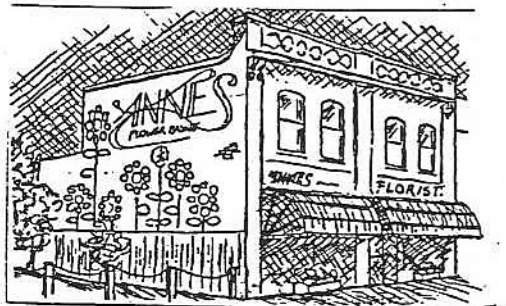
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